

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A display device having display states which are prescribed by distribution states of particles, the display device comprising:

a plurality of scanning lines and a plurality of data lines that independently apply electric fields in pixel units to the particles; and

a drive circuit that includes:

a controller that applies ~~applying~~ a first electric field of a first polarity to the particles for changing the distribution state thereof into a certain state_i ~~[[.]]~~ and

a counter that supplies a count value to the controller for a first period, wherein the controller applies ~~applying~~ a second electric field of the first polarity to the particles for at least one of maintaining ~~[[or]]~~ and stabilizing the certain state after the first period.

2. (currently amended) ~~[[A]]~~ The display device according to claim 1, wherein ~~[[said]]~~ the particles are contained in a microcapsule together with a liquid for dispersing ~~[[said]]~~ the particles.

3. (cancelled)

4. (cancelled)

5. (currently amended) [[A]] The display device according to claim [[4]] 1, wherein a switching element is disposed in correspondence with the intersection of [[said]] the plurality of scanning lines and plurality of data lines.

6. (currently amended) [[A]] The display device according to claim 5, wherein [[said]] the switching element comprises a semiconductor element.

7. (currently amended) [[A]] The display device according to claim 6, wherein [[said]] the semiconductor element comprises a thin film transistor.

8. (currently amended) [[A]] The display device according to claim 5, wherein [[said]] the switching element comprises a two-terminal nonlinear element.

9-22. (cancelled)

23. (currently amended) A recording medium having recorded states that are prescribed by distribution states of particles, ~~the recording medium being structured so as to be capable of~~ the particles dispersed therein between an active matrix substrate and an opposite substrate, comprising:

a plurality of switching elements and a plurality of switching pixel electrodes, the pixel electrode being disposed in correspondence with the switching element and being arranged in an array; and

a circuit that applies ~~applying~~ a first electric field of a first polarity to the particles for changing the distribution thereof into a certain state, and applies ~~applying~~ a second electric field of the first polarity to the particles for at least one of maintaining and stabilizing the certain state after a first period.

24. (cancelled)

25. (currently amended) [[A]] The recording medium according to claim 23, wherein [[said]] the particles are contained in a microcapsule together with a liquid for dispersing [[said]] the particles.

26. (currently amended) [[A]] The recording medium according to claim 23, wherein a single pixel is structured of a plurality of sub pixels, and gradation is controlled by pulse-surface-area modulation.

27. (currently amended) [[A]] The recording medium according to claim 23, wherein [[said]] the particles are formed of a plurality of charged particles with differing quantities of electric charge.

28-29. (cancelled)

30. (currently amended) An electrophoretic device, comprising:
a layer including a dispersing media and a plurality of charged particles contained in the dispersing media[[, and]];
a plurality of scanning lines and a plurality of data lines that independently apply electric fields in pixel units to the particles; and
a circuit that includes:
a controller that controls electric fields applied to the layer wherein a distribution state of the particles is defined by the electric field applied thereto; and
a counter that supplies a count value to the controller for a first period, wherein the circuit ~~controller~~ being is capable of providing the layer with a first electric field of a first polarity for changing the distribution state of the particles into a certain state and a second electric field of the first polarity for at least one of maintaining [[or]] and stabilizing the certain state after the first period.

31. (currently amended) ~~A display device~~ The electrophoretic device according to claim 30, wherein [[said]] the particles are contained in a microcapsule together with a liquid for dispersing [[said]] the particles.

32. (cancelled)

33. (currently amended) An apparatus for driving an electrophoretic device[[,]]
comprising:

~~the apparatus being~~ a circuit capable of controlling electric fields applied to
a layer in which a dispersing media and a plurality of charged particles are contained[,];
and

a plurality of scanning lines and data lines that independently apply
electric fields in pixel units to the particles;

wherein ~~the apparatus~~ the circuit is set to provide the layer with a first
electric field of a first polarity for changing the distribution state of the particles into a
certain state and a second field of the first polarity for at least one of maintaining [[or]]
and stabilizing the certain state after a first period.

34. (currently amended) ~~A display device~~ The apparatus for driving an
electrophoretic device according to claim 33, wherein [[said]] the particles are contained in
a microcapsule together with a liquid for dispersing [[said]] the particles.

35. (cancelled)

36. (currently amended) A method for driving an electrophoretic device
having a plurality of scanning lines and a plurality of data lines that independently apply
electric fields in pixel units, comprising the steps of:

applying a first electric field of a first polarity to a layer including a dispersing media and a plurality of charged particles contained in the dispersing media for writing data;

~~judging whether the data is to be renewed~~ counting a setting time for rewriting the data; and

applying a second electric field of ~~a second~~ the first polarity to the layer for at least one of maintaining ~~[[or]]~~ and stabilizing the data ~~providing that the data is not renewed~~ when the setting time of the rewriting passes.

37. (cancelled)

38. (currently amended) ~~A display device~~ The method for driving an electrophoretic device according to claim ~~[[37]]~~ 36, wherein ~~[[said]]~~ the particles are contained in a microcapsule together with liquid for dispersing ~~[[said]]~~ the particles.

39. (cancelled)